

Title (en)

Multi-touch acoustic beam sensing apparatus and driving method thereof

Title (de)

Multipunkt-Erfassungsvorrichtung mit akustischen Strahl und Verfahren zu ihrer Ansteuerung

Title (fr)

Appareil de détection multipoint avec faisceau acoustique et procédé de commande de celui-ci

Publication

**EP 2902890 A3 20151021 (EN)**

Application

**EP 15151737 A 20150120**

Priority

- US 201461934447 P 20140131
- US 201514589943 A 20150105

Abstract (en)

[origin: EP2902890A2] A touch panel (600) includes: a touch area; a collimated acoustic wave generator (612,614,616) at a periphery of the touch area to generate a collimated acoustic wave (606, 608, 610) across the touch area; and a detector (618, 620, 622) at the periphery of the touch area to detect the collimated acoustic wave.

IPC 8 full level

**G06F 3/043** (2006.01)

CPC (source: EP US)

**G06F 3/0412** (2013.01 - US); **G06F 3/0436** (2013.01 - EP US); **G06F 2203/04104** (2013.01 - US)

Citation (search report)

- [X] US 2010026667 A1 20100204 - BERNSTEIN JEFFREY TRAER [US]
- [X] WO 2005103872 A2 20051103 - ELO TOUCHSYSTEMS INC [US]
- [I] US 2012154110 A1 20120621 - KIM BYUNG HOON [KR], et al
- [E] WO 2015054483 A1 20150416 - QUALCOMM INC [US]

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 2902890 A2 20150805; EP 2902890 A3 20151021**; CN 104820526 A 20150805; US 2015220214 A1 20150806

DOCDB simple family (application)

**EP 15151737 A 20150120**; CN 201510050241 A 20150130; US 201514589943 A 20150105